City of Columbia Water and Light
Perche Creek - McBaine 161-kV Transmssion Line (Option B)
Route Selection Matrix
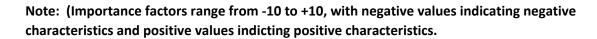
	Public Feedback Ranking	Importance Factor (See Note)	GREEN LINE			RED LINE			RED-ORANGE-GREEN LINE			RED-BLUE-GREEN LINE		
Proximity to Residences	30.0%		Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact
Houses 0-100		-10	15	200	-9,000	5	200	-3,000	15	200	-9,000	16	200	-9,600
Houses 100-200		-5	94	200	-28,200	44	200	-13,200	81	200	-24,300	54	200	-16,200
Multi-Family 0-100		-10	24	200	-14,400	42	200	-25,200	40	200	-24,000	40	200	-24,000
Multi-Family 100-200		-5	43	200	-12,900	16	200	-4,800	22	200	-6,600	21	200	-6,300
Nursing homes 0-100		-10	0	200	0	0	200	0	0	200	0	0	200	0
Nursing homes 100-200		-5	0	200	0	0	200	0	0	200	0	0	200	0
Proximity to Residences TOTALS					**-64,500**			**-46,200**			**-63,900**			**-56,100**
Proximity to Schools	19.3%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Day care 0-100		-10	0		0	0		0	0		0	0		0
Day Care 100-200		-5	0		0	0		0	0		0	0		0
Schools 0-100		-10	0		0	0		0	0		0	0		0
Schools 100-200		-5	0		0	0		0	0		0	0		0
Proximity to Schools TOTALS					**0**			**0**			**0**			**0**
Proximity to Environmental Concerns	13.1%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Wooded/forested crossed		-10	2336		-3,060	11054		-14,481	0		0	0		0
Streams 0-200		-10	200		-262	600		-786	1100		-1,441	1100		-1,441
Conservation areas crossed		-10	0		0	0		0	0		0	0		0
Wetlands crossed		-10	156		-204	2446		-3,204	691		-905	196		-257
Agricultural property crossed		3	0		0	0		0	0		0	0		0
Proximity to Environmental Concerns TOTALS					**-3,527**			**-18,471**			**-2,346**			**-1,698**
Proximity to Recreation Areas	11.5%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Parks 0-100		-10	1050		-1,208	424		-488	424		-488	424		-488
Parks 100-200		-5	1347		-775	424		-244	1058		-608	424		-244
Trails 0-100		-10	12		-14	12		-14	12		-14	12		-14
Trails 100-200		-5	0		0	0		0	0		0	0		0
Other recreation areas 0-100		-10	0		0	0		0	0		0	0		0
Other recreation areas 100-200		-5	0		0	541		-311	541		-311	541		-311
Proximity to Recreation Areas TOTALS					**-1,996**			**-1,056**			**-1,421**			**-1,056**
Proximity to Businesses	12.4%		Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact
Commercial structures 0-100		-5	0	500	0	0	500	0	1	500	-310	1	500	-310
Commercial structures 100-200		-2	7	500	-868	1	500	-124	4	500	-496	4	500	-496
Churches 0-100		-5	0	500	0	0	500	0	0	500	0	0	500	0
Churches 100-200		-2	0	500	0	0	500	0	0	500	0	0	500	0
Hospitals 0-100		-10	0	500	0	0	500	0	0	500	0	0	500	0
Hospitals 100-200		-5	0	500	0	0	500	0	0	500	0	0	500	0
Proximity to Businesses TOTALS					**-868**			**-124**			**-806**			**-806**
TOTAL LINEAL FEET PUBLIC FEEDBACK IMPACT					**-70,890**			**-65,851**			**-68,473**			**-59,660**
AVERAGE LINEAL FEET FEEDBACK IMPACT	-68370.81													
COST	13.7%				$6,526,142			$8,343,663			$7,767,692			$7,084,854
COST COMPARISON ADJUSTMENT (Highest cost is 1)					0.78			1.00			0.93			0.85
COST COMPARISON ADJUSTED APPLIED TO PUBLIC FEEDBACK					0.11			0.14			0.13			0.12
COST AS A NEGATIVE PERCENT IMPACT OF TOTAL LINE FEEDBACK.					**-7,326**			**-9,367**			**-8,720**			**-7,954**
TOTAL LINE SCORE INCLUDING ADJUSTED COST COMPARISON					**-78,217**			**-75,218**			**-77,193**			**-67,614**

Note: (Importance factors range from -10 to +10, with negative values indicating negative
characteristics and positive values indicting positive characteristics.

DIAGRAM C

City of Columbia Water and Light
Mill Creek - Hinkson Creek 69-kV Transmssion Line (Option B)
Route Selection Matrix

	Public Feedback Ranking	Importance Factor (See Note)	ORANGE LINE			RED LINE		
Proximity to Residences	30.0%		Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact
Houses 0-100		-10	0	200	0	0	200	0
Houses 100-200		-5	0	200	0	0	200	0
Multi-Family 0-100		-10	3	200	-1800	0	200	0
Multi-Family 100-200		-5	5	200	-1500	0	200	0
Nursing homes 0-100		-10	0	200	0	0	200	0
Nursing homes 100-200		-5	0	200	0	0	200	0
Proximity to Residences TOTALS					**-3300**			**0**
Proximity to Schools	19.3%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Day care 0-100		-10	0		0	0		0
Day Care 100-200		-5	0		0	0		0
Schools 0-100		-10	0		0	600		-1158
Schools 100-200		-5	0		0	0		0
Proximity to Schools TOTALS					**0**			**-1158**
Proximity to Environmental Concerns	13.1%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Wooded/forested crossed		-10	449		-588.19	0		0
Streams 0-200		-10	100		-131	0		0
Conservation areas crossed		-10	0		0	0		0
Wetlands crossed		-10	0		0	100		-131
Agricultural property crossed		3	0		0	0		0
Proximity to Environmental Concerns TOTALS					**-719.19**			**-131**
Proximity to Recreation Areas	11.5%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Parks 0-100		-10	0		0	0		0
Parks 100-200		-5	0		0	0		0
Trails 0-100		-10	0		0	0		0
Trails 100-200		-5	0		0	0		0
Other recreation areas 0-100		-10	0		0	0		0
Other recreation areas 100-200		-5	0		0	0		0
Proximity to Recreation Areas TOTALS					**0**			**0**
Proximity to Businesses	12.4%		Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact
Commercial structures 0-100		-5	9	500	-2790	5	500	-1550
Commercial structures 100-200		-2	16	500	-1984	6	500	-744
Churches 0-100		-5	0	500	0	0	500	0
Churches 100-200		-2	0	500	0	0	500	0
Hospitals 0-100		-10	0	500	0	0	500	0
Hospitals 100-200		-5	0	500	0	0	500	0
Proximity to Businesses TOTALS					**-4774**			**-2294**
TOTAL LINEAL FEET PUBLIC FEEDBACK IMPACT					**-8793.19**			**-3583**
AVERAGE LINEAL FEET FEEDBACK IMPACT	-6188.095							
COST	13.7%				$1,652,173			$1,493,798
COST COMPARISON ADJUSTMENT (HIGHEST cost is 1)					1.00			0.90
COST COMPARISON ADJUSTED APPLIED TO PUBLIC FEEDBACK					0.14			0.12
COST AS A NEGATIVE PERCENT IMPACT OF TOTAL LINE FEEDBACK.					-848			-767
TOTAL LINE SCORE INCLUDING ADJUSTED COST COMPARISON					**-9641**			**-4350**

Note: (Importance factors range from -10 to +10, with negative values indicating negative
characteristics and positive values indicting positive characteristics.

DIAGRAM D

City of Columbia Water and Light
Mill Creek - Grindstone 69-kV Transmssion Line (Option B)
Route Selection Matrix

	Public Feedback Ranking	Importance Factor (See Note)	GREEN LINE			YELLOW LINE		
Proximity to Residences	30.0%		Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact
Houses 0-100		-10	1	200	-600	0	200	0
Houses 100-200		-5	4	200	-1200	0	200	0
Multi-Family 0-100		-10	0	200	0	0	200	0
Multi-Family 100-200		-5	0	200	0	0	200	0
Nursing homes 0-100		-10	0	200	0	0	200	0
Nursing homes 100-200		-5	0	200	0	0	200	0
Proximity to Residences TOTALS					**-1800**			**0**
Proximity to Schools	19.3%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Day care 0-100		-10	0		0	0		0
Day Care 100-200		-5	0		0	0		0
Schools 0-100		-10	600		-1158	600		-1158
Schools 100-200		-5	0		0	0		0
Proximity to Schools TOTALS					**-1158**			**-1158**
Proximity to Environmental Concerns	13.1%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Wooded/forested crossed		-10	0		0	0		0
Streams 0-200		-10	100		-131	100		-131
Conservation areas crossed		-10	0		0	0		0
Wetlands crossed		-10	100		-131	100		-131
Agricultural property crossed		3	0		0	0		0
Proximity to Environmental Concerns TOTALS					**-262**			**-262**
Proximity to Recreation Areas	11.5%		Lineal feet of instance		Total impact	Lineal feet of instance		Total impact
Parks 0-100		-10	0		0	0		0
Parks 100-200		-5	0		0	0		0
Trails 0-100		-10	0		0	0		0
Trails 100-200		-5	0		0	0		0
Other recreation areas 0-100		-10	0		0	0		0
Other recreation areas 100-200		-5	0		0	0		0
Proximity to Recreation Areas TOTALS					**0**			**0**
Proximity to Businesses	12.4%		Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact
Commercial structures 0-100		-5	4	500	-1240	4	500	-1240
Commercial structures 100-200		-2	4	500	-496	8	500	-992
Churches 0-100		-5	0	500	0	0	500	0
Churches 100-200		-2	0	500	0	0	500	0
Hospitals 0-100		-10	0	500	0	0	500	0
Hospitals 100-200		-5	0	500	0	0	500	0
Proximity to Businesses TOTALS					**-1736**			**-2232**
TOTAL LINEAL FEET PUBLIC FEEDBACK IMPACT					**-4956**			**-3652**
AVERAGE LINEAL FEET FEEDBACK IMPACT	-4304							
COST	13.7%				$1,652,173			$1,493,798
COST COMPARISON ADJUSTMENT (HIGHEST cost is 1)					1.00			0.90
COST COMPARISON ADJUSTED APPLIED TO PUBLIC FEEDBACK					0.14			0.12
COST AS A NEGATIVE PERCENT IMPACT OF TOTAL LINE FEEDBACK.					-590			-533
TOTAL LINE SCORE INCLUDING ADJUSTED COST COMPARISON					**-5546**			**-4185**

Note: (Importance factors range from -10 to +10, with negative values indicating negative characteristics and positive values indicting positive characteristics.

DIAGRAM E